

REVIEW OF PLANS AND SPECIFICATIONS

ENVIRONMENTAL QUALITY
WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

back

1. PROJECT: Chief Washakie Recreation Center, Sewerage System & Water Mains, Fremont County, WY
2. ARCHITECT OR ENGINEER: Richard Gertberger, R. D. Connell & Associates
P.O. Box 1010, Riverton, WY
WATER QUALITY DIVISION
3. ~~SANITARY ENGINEERING SERVICES~~/REF. NO.: 73-100R
4. REVIEWING ENGINEER: Robert H. Pinther, P.E.
5. DATE OF REVIEW: July 31, 1973
6. ACTION: Reviewed for Compliance with Acceptable Sanitary Engineering Standards
7. COMMENTS:

Due to the expected presence of algae in the effluent from this treatment facility, the treated effluent may not comply with the suspended solids standards of the Environmental Protection Agency. These standards must be met no later than July 1, 1977 and consist of maximum allowable levels. These levels are 30 parts per million BOD, 30 parts per million suspended solids and 200 coliform organisms per 100 milliliters.

RHP:ijt

Enclosures: 2 copies Addendum No. I

cc: Bill George, District Sanitarian, Worland

Book

REVIEW OF PLANS AND SPECIFICATIONS
ENVIRONMENTAL QUALITY
WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
~~SANITARY ENGINEERING SERVICES~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001 82002

1. PROJECT: Goedicke Trailer Court, 7 Unit Spaces, Midwest Heights Addition, Casper
2. ARCHITECT OR ENGINEER: None indicated; submitted by Paul L. Goedicke, 1250
North Center, Casper, Wyoming 82601
WATER QUALITY DIVISION
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-101
4. REVIEWING ENGINEER: Robert H. Pinther, P.E.
5. DATE OF REVIEW: July 13, 1973
6. ACTION: Reviewed for compliance with State standards.
7. COMMENTS:

The following items should receive your further attention.

1. Provide a minimum separation of 25 feet between the drainfield and any buried water line.
2. Provide dimensioned details of a typical septic tank. This shall also include cross-sectional, longitudinal and top views showing baffles in place, depth of bury, inlet and outlet pipes and access manholes over inlet and outlet.
3. Provide dimensioned cross sectional and top views of the seepage bed showing (1) depth of trench bottom (2) depth of water table (3) distance between distribution lines, (maximum of 6' apart and 3 feet from walls), (4) length of distribution tile, (5) membrane over gravel to keep dirt out (6) flat grade of distribution tile and (7) no dead ends on distribution piping.
4. Submit the results of percolation tests on which the size of the seepage bed is based.
5. Specify that refuse containers will be stabilized in the upright position.
Note: For ease of handling refuse each container should be limited to 30 gallons capacity. Most authorities specify a 30 gallon maximum size for pick-up.
6. Indicate the source of water supply. If other than municipal, submit complete details of construction.
7. Provide a longsweep 90° elbow or 2 - 45° elbows at the base of each individual trailer sewer service riser.

RHP:dld

cc: Casper-Natrona County Health Department, Casper, Wyoming

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
~~SANITARY ENGINEERING SERVICES~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: Goedicke Trailer Court, 7 Unit Spaces, Midwest Heights, Casper, Wyoming
2. ARCHITECT OR ENGINEER: None indicated; submitted by Paul L. Goedicke, ~~Person~~ Water Quality Division 1250 North Center, Casper, Wyoming 82601
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-101AR
4. REVIEWING ENGINEER: Robert E. Piather, P.E.
5. DATE OF REVIEW: August 15, 1973
6. ACTION: Reviewed for compliance with State Standards
7. COMMENTS:

A seepage pit as specified is not satisfactory because this method of disposal is a threat to the ground water quality. A seepage bed which is constructed in compliance with the requirements of the Casper-Natrona County Health Department will be satisfactory. Mrs. Paul Goedicke stated by phone on August 15, 1973, that the soil absorption system for disposal of the effluent from each septic tank will be a seepage bed which is so constructed.

RHP:mp

cc: Casper-Natrona County Health Department, Casper, Wyoming 82601

BOOK

REVIEW OF PLANS AND SPECIFICATIONS

Environmental Quality

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES

DIVISION OF HEALTH AND MEDICAL SERVICES

SANITARY/ENGINEERING/SERVICES/

STATE OFFICE BUILDING

CHEYENNE, WYOMING 82001 82002

1. PROJECT: Cody's Country First Filing Subdivision Water System
Park County, Wyoming
2. ARCHITECT OR ENGINEER: Jack F. Mueller, P.E., Mueller Engineer, Inc.
1629 Avenue D, Billings, Montana 59102
Water Quality Division
3. SANITARY/ENGINEERING/SERVICES/REF. NO.: 73-102
4. REVIEWING ENGINEER: William L. Garland, P.E.
5. DATE OF REVIEW: July 13, 1973
6. ACTION: Reviewed for Compliance with State requirements
7. COMMENTS:

WLG:dld

cc: District Sanitarian, District II, Worland, Wyoming

back

REVIEW OF PLANS AND SPECIFICATIONS

ENVIRONMENTAL QUALITY
WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
~~SANITARY/ENGINEERING/SERVICES~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001/ 82002

1. PROJECT: College View Estates Mobile Home Park, 16 Unit Spaces
Cheyenne, Wyoming
2. ARCHITECT OR ENGINEER: E. P. Kelley & Associates, 311 West 19th Street,
Cheyenne, Wyoming
3. ~~SANITARY/ENGINEERING/SERVICES~~ WATER QUALITY DIVISION
~~SANITARY/ENGINEERING/SERVICES~~ REF. NO.: 73-103
4. REVIEWING ENGINEER: Frank R. Harman, P.E.
5. DATE OF REVIEW: July 23, 1973
6. ACTION: Reviewed for Compliance with State Standards
7. COMMENTS:

This Action followed a conference with Mr. McKilney, owner.

1. It is understood that the South Cheyenne Water & Sewer District Utilities will be used.
2. There appears to be a potential for ownership confusion of the utility lines in the future with some unit spaces for rent and some to be sold.

FRH:ijt

cc: Don Pack, Sanitarian, City-County Health Unit, Cheyenne
Ed Bradley, State Fire Marshal, Cheyenne

Boole

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: College View Estates Mobile Home Park, 16 unit spaces, Tract 88,
Allison Tract, Cheyenne, Wyoming

ARCHITECT OR ENGINEER: E.P. Kelley & Associates; Submitted by Mr. James M.
McKelvey, Rt. 1, Box 307, Cheyenne, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-103R

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: February 4, 1974

ACTION: Authorized for Construction

COMMENTS:

FRH:mp
2/4/74

cc: Don Pack, Sanitarian, City-County Health Unit, Cheyenne

book

REVIEW OF PLANS AND SPECIFICATIONS
ENVIRONMENTAL QUALITY
WYOMING DEPARTMENT OF ~~HEALTH/AND/SOCIAL/SERVICES~~
~~DIVISION/OF/HEALTH/AND/MEDICAL/SERVICES~~
~~SANITARY/ENGINEERING/SERVICES~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001 82002

1. PROJECT: Town of Deaver addition to Sanitary Sewer System, Alley of Block 37
Deaver, Wyoming
2. ARCHITECT OR ENGINEER: Wesley W. Reed, Engineering Associates, P.O. Box
1539, Cody, Wyoming
WATER QUALITY DIVISION
3. ~~SANITARY/ENGINEERING/SERVICES~~ REF. NO.: 73-104
4. REVIEWING ENGINEER: Robert H. Pinther, P.E.
5. DATE OF REVIEW: July 16, 1973
6. ACTION: Reviewed for compliance with State standards.
7. COMMENTS:

RHP:dld

Enclosures: 2 sets of plans

cc: Town of Deaver, Mayor Fred Stevens

000/2

REVIEW OF PLANS AND SPECIFICATIONS
ENVIRONMENTAL QUALITY
WYOMING DEPARTMENT OF ~~HEALTH AND SOLID WASTE SERVICES~~
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
~~SANITARY ENGINEERING SERVICES~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001 82002

1. PROJECT: Westland Park Subdivision, Water & Sewer Extensions, Town of Evansville, Wyoming
2. ARCHITECT OR ENGINEER: Sigma Engineering, P.O. Box 2354, Casper, Wyoming 82601
WATER QUALITY DIV.
3. ~~/SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-105
4. REVIEWING ENGINEER: Robert H. Pinther, P.E.
5. DATE OF REVIEW: July 16, 1973
6. ACTION: Reviewed for Compliance with State Standards
7. COMMENTS:

1. To help prevent freezing a minimum cover of 6 feet should be provided over all water mains.
2. In order to avoid the water and sewer main crossing at the end of Platte Park Blvd. and at the same time allow the water main to be laid at least 6 feet deep without coming within 18 inches vertically of the sewer, consideration should be given to carrying the water main on the north side of the sewer where it extends towards the west to Western Avenue and on the west side of the sewer main along Western Avenue.

NOTE: The water main appears to be less than 5 feet deep at this crossing.

RHP:ijt

cc: Town of Evansville, P.O. Drawer 158, Evansville, Wyoming 82636

Book

REVIEW OF PLANS AND SPECIFICATIONS

ENVIRONMENTAL QUALITY
WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY/ENGINEERING/SERVICES/
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82661/ 82002

1. PROJECT: Westland Park Subdivision, Water & Sewer Extensions, Town of Evansville, Wyoming
2. ARCHITECT OR ENGINEER: Sigma Engineering, P.O. Box 2354, Casper, Wyoming 28601
3. WATER QUALITY DIVISION
~~SANITARY/ENGINEERING/SERVICES~~ REF. NO.: 73-105R
4. REVIEWING ENGINEER: Robert H. Pinther, P.E.
5. DATE OF REVIEW: August 2, 1973
6. ACTION: Reviewed for compliance with State Standards
7. COMMENTS:

1. To help prevent freezing a minimum cover of 6 feet is recommended over all water lines.

Note: A number of serviceline "freeze ups" occurred at mobile homes in Evansville in January 1973. It appears that the water mains were quite shallow as were the service lines. There is no State standard on depth of water mains. A 6-foot depth is recommended except where the soil is sandy and a high water table is not encountered.

RHP:dld

cc: Town of Evansville, P.O. Drawer 158, Evansville, Wyoming 82636
Casper-Natrona County Health Department, Casper, Wyoming 92601

hook

REVIEW OF PLANS AND SPECIFICATIONS
Environmental Quality
~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES/~~
~~DIVISION OF HEALTH AND MEDICAL SERVICES/~~
~~SANITARY ENGINEERING SERVICES/~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: Hanna Ventures Mobile Home Court, 35 Unit Spaces, Hanna, Wyoming
2. ARCHITECT OR ENGINEER: Energy Development Company, P.O. Box 36, Hanna, Wyoming
Water Quality Division
3. ~~SANITARY ENGINEERING SERVICES~~/REF. NO.: 73-106
4. REVIEWING ENGINEER: William L. Garland, P.E.
5. DATE OF REVIEW: July 13, 1973
6. ACTION: Reviewed for compliance with State requirements
7. COMMENTS: The following items should receive your further attention
 1. The standards governing construction of mobile home parks require a minimum width for all driveways of 20 feet. Your detail sheet for lot layout indicates a 15 foot driveway width. This should be enlarged to conform to the standards.
 2. All mobile home parks are required to provide emergency restroom facilities. If a manager is to live in the park, his unit can be designated as the emergency facilities. The tenants of the park should be informed and a sign displayed indicating his unit as the emergency facility.
 3. Refuse containers are required in adequate numbers at a minimum distance of 100' from each unit. Collection of refuse is required at least once a week. If this service is not provided by the city, an agreement must be made with each tenant to insure compliance with this requirement.
 4. Adequate lighting is required in all mobile home parks. The location of lighting facilities should be shown on the plans.
 5. You have indicated on your plans that the sewer and water mains cross near unit space #5. When such a crossing exists, the sewer shall pass under the water main with at least 18 inches from the bottom of the water main to the top of the sewer. It is also recommended that one full length of water main should be centered over the sewer so that both joints will be as far from the sewer as possible.

WLG:dld

cc: District Sanitarian, District I, Rock Springs, Wyoming

book

STATE OF WYOMING

DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

State Office Building
CHEYENNE, WYOMING 82002

July 22, 1973

Mr. Edwin L. Booth
Jim Bridger Development, Inc.
P.O. Box 591
Pinedale, Wyoming 82941

Dear Mr. Booth:

Subject: Jim Bridger Development,
Inc.
Preliminary Plan Under
Consideration
Ref. No. 73-107

We have received your preliminary plans on subject facility. In general, your design concepts appear valid. We would, however, require some further detail design features of the systems, including details regarding them generally as follows:

1. Water System:

- a. Spring box details, e.g. section, fence depth, hydraulic details.
- b. Storage tanks, type construction, dimensions, materials, location, hydraulic details, elevations.
- c. Type of material -- lines.
- d. Typical service connection.
- e. Chlorination if and where applied.
- f. Flows and pressures.

NOTE: Attached checklist indicates some of the items generally required.

2. Sewer System

- a. Type of pipe.
- b. Profile

Mr. Edwin L. Booth
Pinedale, Wyoming

2

July 22, 1973

- c. Manholes (or cleanout) locations.
 - d. Typical service connection.
 - e. Lagoon details, inlet, outlet structure, depth of water, fencing, location of outfall.
3. General
- a. If an overflowing lagoon is considered, owner must secure a Federal permit to discharge. Information can be secured from Jim Shaw, Environmental Protection Agency, Region VIII, Denver, Telephone 303-837-4901, or this office. Enclosed form will give an indication of this requirement. 180 days prior to discharge is a general lead time requirement for this permit.
 - b. Water system will require an analysis by Wyoming Public Service Commission to determine what utility constraints may be applicable.
 - c. Owner is required to clarify water right status with the Wyoming State Engineer.
 - d. Administrator of Wyoming Water Quality Division directs that Sublette County Zoning Officer be given an opportunity to review this plat, and make a general indication to this Agency that applicable Sublette County criteria will have been addressed through design and construction, and that if such technical details are adequately answered that no land use preclusion exists on this facility.

In closing, we are required to classify your submission as "Preliminary Plan Under Consideration" contingent on owner's requirement to further explore the criteria itemized. Nevertheless, we stress that an apparently good start has been made on the design, which, if brought to a sound design conclusion in the same manner, should have no problem in meeting applicable State and County Standards.

Please do not hesitate to contact me if you require assistance as you proceed.

Sincerely,

Joe R. Tynsky
Joseph R. Tynsky, P.E.
Sanitary Engineer

Water Quality Division
WYOMING DEPARTMENT OF ENVIRONMENTAL
QUALITY

JRT:ijt

Mr. Edwin L. Booth
Pinedale, Wyoming

3

July 22, 1973

Enclosures: Xerox of "A Guide for Preparation of Plans and
Specifications for Public Water Supplies.
Permit Form A, Errata Sheet and General Instructions
Stabilization Pond Design Factors
Minimum Standards for Private or Semi-Public Water
Supplies

cc: Bill Clark, Sublette County Zoning Officer, Courthouse, Pinedale
Enclosure: Plans, letter etc. of Mr. Booth
Frank Rauchfuss, Utilities Director, Wyoming Public Service
Commission, Cheyenne
Richard Stockdale, Groundwater Supervisor, Wyoming State
Engineer's Office, Cheyenne
District Sanitarian, District I, Rock Springs

600/6

REVIEW OF PLANS AND SPECIFICATIONS
ENVIRONMENTAL QUALITY
WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: Town of Thayne, Sewage Collection & Treatment Facilities
Thayne, Wyoming C560098
2. ARCHITECT OR ENGINEER: Nelson Engineering, Consulting Engineers & Surveyors
P.O. Box 1141, Jackson, Wyoming 83001
Water Quality Division
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-108
4. REVIEWING ENGINEER: Joseph R. Tynsky, P.E.
5. DATE OF REVIEW: July 26, 1973
6. ACTION: Reviewed for Compliance with Design Standards - Construction
Authorized
7. COMMENTS:
 1. Engineer is strongly urged to initiate a comprehensive maintenance and operation manual directed to allowing and maintaining pre-requisite to optimum operation.
 2. General Notes on topography map of irrigation field indicate in paragraph 5. BOD and S.S. application rate in lbs/day. This would seem to be lbs/acre/day.
 3. Mounting posts for spray heads may be subject to rapid deterioration. Material and treatment are recommended specified accordingly.
 4. Concern for sludge accumulation was voiced with respect to the primary aeration cell. However, the ability to shift sludge to the secondary cell, or to the spray system, would present an acceptable sludge isolation technique, with obvious ready land disposal at hand.

JRT:ijt

cc: Environmental Protection Agency, Denver
Harry Irving, Farmers Home Administration, Casper
Mayor Wilford Hemmert, Thayne

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
CHEYENNE, WYOMING 82002
REVIEW OF PLANS AND SPECIFICATIONS

Book

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001~~

1. PROJECT: Town of Thayne, Sewage Collection & Treatment Facilities
Thayne, Wyoming C 560998
2. ARCHITECT OR ENGINEER: Nelson Engineering, P.O. Box 1141, Jackson,
Wyoming 83001
~~Water Quality Division~~
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-108R
4. REVIEWING ENGINEER: Joseph R. Tynsky, P.E.
5. DATE OF REVIEW: September 17, 1973
6. ACTION: Reviewed for Compliance with Design Standards
7. COMMENTS:

This segment of plans and specifications is classified
"Construction Authorized."

JRT:mp

cc: Town of Thayne, Thayne, Wyoming
FHA, Casper, Wyoming
Environmental Protection Agency, Denver, Colorado

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Thayne, Sewage Collection and Treatment Facilities
Thayne, Wyoming

ARCHITECT OR ENGINEER: Nelson Engineering, Consulting Engineers, P.O. Box
1141, Jackson, Wyoming 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 73-108RR (C 560098)

REVIEWING ENGINEER: Joseph R. Tynsky, P.E.

DATE OF REVIEW: November 23, 1973

ACTION: Reviewed for Compliance with Design Standards
Construction Authorized

COMMENTS:

JRT:mp

cc: Mayor Wilford Hemmert, Town of Thayne, Thayne, Wyoming
Farmers Home Administration, P.O. Box 820, Casper, Wyoming

Book

Telephone 307 777-7391

January 10, 1974

John A. Green, Regional Administrator
U.S. Environmental Protection Agency
Region VIII
1860 Lincoln Street, Suite 900
Denver, Colorado 80203

ATTENTION William H. Hornberg
Acting Director
Office of Grants

Dear Mr. Green:

Subject: Town of Thayne, Wyoming
Sewage Collection and
Treatment Facilities
C 560098 73-108RRR

We are sending for your review two sets of engineering drawings for subject project, and project checklists which have been completed in our technical review of the plans for this project. These plans carry a "Construction Authorized" classification.

Sincerely,

Paul C. Schwieger, P.E.
Sanitary Engineer
Water Quality Division

PCS:mp

Enclosures Plans via Greyhound

cc: Nelson Engineering, P.O. Box 1141, Jackson, Wyoming

Mayor Wilford Hemmert, Town of Thayne, Wyoming

Farmers Home Administration, P.O. Box 820, Casper, Wyoming

book

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
~~CHEYENNE, WYOMING 82001~~
REVIEW OF PLANS AND SPECIFICATIONS

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001~~

1. PROJECT: Paradise Valley Utility Company, Water Main Extensions
(Block 42, lots 2-29, Block 44, lots 21-57 and all of Blocks
41, 47 and 48), Casper, Wyoming.
2. ARCHITECT OR ENGINEER: None indicated. Submitted by Mr. Jim Clare,
~~Paradise Valley Utility Company~~
Paradise Valley Utility Company, Casper, Wyoming
Water Quality Division
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-109
4. REVIEWING ENGINEER: Robert H. Pinther, P.E.
5. DATE OF REVIEW: August 3, 1973
6. ACTION: Reviewed for compliance with acceptable Sanitary Engineering
standards
7. COMMENTS:

1. Indicate that the specifications referred to on the plans
will also govern the construction, ie. trenching, laying
of water and sewer mains, etc.
Note: The plans indicate that the specifications
will govern the "Pipe Fittings, Gate Valves,
Valve Boxes and Fire Hydrants".
2. Specify a minimum horizontal separation of 10 feet between
all water and sewer mains.
3. Specify construction at all water and sewer line crossings
as set forth under section "8.4.3 Crossings" of the en-
closure entitled, "Part 8, Distribution Systems".
4. Specify quality (ie. non-toxic and pressure rating) of
plastic water mains and plastic water main fittings to be
used.
5. Specify that the water mains and appurtenances shall be
disinfected by one of the procedures set forth in the
enclosed excerpt from "C601-68, AWWA Standard (for)
Disinfecting Water Mains".

RHP:mp

Enclosures (2)

cc: Casper Natrona County Health Department Casper

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: RESEARCH AND DEVELOPMENT OF A NEW TYPE OF AIRCRAFT ENGINE (1960-1965)
THE RESEARCH AND DEVELOPMENT OF A NEW TYPE OF AIRCRAFT ENGINE (1960-1965)
THE RESEARCH AND DEVELOPMENT OF A NEW TYPE OF AIRCRAFT ENGINE (1960-1965)

ARCHITECT OR ENGINEER: _____

WATER QUALITY DIVISION REFERENCE NUMBER: 7-1-1-1

REVIEWING ENGINEER: [Signature]

DATE OF REVIEW: 12/15/2014

ACTION: The Board shall review the proposed action and determine whether the proposed action is in the best interests of the University and whether the proposed action is consistent with the University's policies and procedures. The Board shall also determine whether the proposed action is consistent with the University's financial resources and whether the proposed action is consistent with the University's legal obligations. The Board shall also determine whether the proposed action is consistent with the University's mission and vision.

COMMENTS:

1. This policy document is the result of a review of the current and past practices of the Department of the Interior, and is intended to provide guidance to all employees of the Department in the performance of their duties. It is intended to be a living document, and will be updated as necessary to reflect changes in the Department's policies and procedures.

1997

to the fact that the model is based on a single point estimate of the parameters of the distribution. The model is also sensitive to the choice of the prior distribution for the parameters.

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
CHEYENNE, WYOMING 82002
REVIEW OF PLANS AND SPECIFICATIONS

Book

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001~~

1. PROJECT: City of Lander Water and Sanitary Sewer Extensions, Riverview Estates Addition, Lander, Wyoming
2. ARCHITECT OR ENGINEER: C.E. Spurlock, Jr., C.E. Spurlock Jr. and Associates, Lander, Wyoming
Water Quality Division
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-110
4. REVIEWING ENGINEER: Robert H. Pinthor, P.E.
5. DATE OF REVIEW: August 2, 1973
6. ACTION: Reviewed for compliance with State standards
7. COMMENTS:

1. Submit specifications. See enclosed plan review number 72-75 of May 24, 1972 pertaining to specific items to be included in the specifications. To date we have not received the 'standard specifications' referred to in item 6 of the aforementioned review.
2. Provide the separation of water and sewer lines, disinfection, etc., set forth in the enclosed plan review.

RP

Enclosure

cc: Bill George, District Sanitarian, Worland, Wyoming
Orren Bowers, City Engineer, Lander, Wyoming (1 copy of 72-75 review)

book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
~~SANITARY ENGINEERING SERVICES~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: City of Lander, Riverview Estates Addition, Sewer and Water Extensions, Lander, Wyoming
2. ARCHITECT OR ENGINEER: C.E. Spurlock, Jr. & Associates, Lander, Wyoming
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-110R
4. REVIEWING ENGINEER: William L. Garland, P.E.
5. DATE OF REVIEW: September 6, 1973
6. ACTION: Authorized for Construction
7. COMMENTS:

Authorization is granted on the basis of compliance with the specifications set forth by the City of Lander and changes outlined in revised plans.

VLG:mp

Boyle

REVIEW OF PLANS AND SPECIFICATIONS

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001~~

1. PROJECT: Cheyenne Community Redevelopment Agency, West Seventh Street Storm Sewer, Cheyenne, Wyoming
2. ARCHITECT OR ENGINEER: Mr. John Galeotos, Cheyenne Community Redevelopment Agency, 1902 Thomas Avenue, Cheyenne
~~Water Quality Division~~
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-1111
4. REVIEWING ENGINEER: William L. Garland, P.E.
5. DATE OF REVIEW: August 15, 1973
6. ACTION: Construction Authorized
7. COMMENTS:

WLG:mp

cc: Mr. Robert Young, City Engineer, Cheyenne, Wyoming
Mr. Don Pack, City County Health Unit, Cheyenne, Wyoming

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
~~SANITARY ENGINEERING SERVICES~~
~~STATE OFFICE BUILDING~~
CHEYENNE, WYOMING 82001

1. PROJECT: Paradise Valley Utility Company, Sanitary Sewer Line Extensions, (Block 42, lots 2-29, Block 44, lots 21-57 and all of Blocks 41, 47 and 48) Casper, Wyoming
2. ARCHITECT OR ENGINEER: Worthington, Lenhart, Carpenter & Ladd, Inc.,
Casper, Wyoming
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-112
Water Quality Division
4. REVIEWING ENGINEER: Robert H. Pinther, P.E.
5. DATE OF REVIEW: August 15, 1973
6. ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards
7. COMMENTS:
 1. Specify a minimum horizontal separation of 10 feet between all water and sewer mains.
 2. Show locations where water and sewer mains cross.
 3. Specify construction of all water and sewer line crossings in accordance with Section "8.4.3 Crossings" of the enclosure entitled, "Part 8-Distribution Systems".

RHP:mp

Enclosure

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Paradise Valley Utility Company, Sanitary Sewer Line
Extensions, (Block 42, lots 2-29, Block 44, lots 21-57
and all of Blocks 41, 47 and 48) Casper, Wyoming
ARCHITECT OR ENGINEER: Worthington, Lenhart, Carpenter & Ladd, Inc.
632 South David, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 73-112R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: November 7, 1973

ACTION: Construction Authorized

COMMENTS: None

RHP:mp

Note: One copy of the plans bearing Sanitary Engineering Reference
No. 73-112R are being returned to the Engineer

cc: Nix Anderson, Casper-Natrona County Health Department, Casper

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: Town of Pinedale, Waterworks Improvements, Pinedale, Wyoming
2. ARCHITECT OR ENGINEER: Robert L. Streeter, P.E., Consulting Engineer
Casper, Wyoming 82601
Water Quality Division
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-113
4. REVIEWING ENGINEER: Joseph R. Tynsky, P.E.
5. DATE OF REVIEW: August 14, 1973
6. ACTION: Reviewed for compliance with Design standards (Construction Authorized)
7. COMMENTS:

Engineer is requested to outline the procedures to operator of the maintenance and operation peculiar to the submerged intake, particularly with regard to pulling, replacing, and/or maintaining this segment of the unit.

Polyethylene pipes should be checked to carry National Sanitation Foundation approval status, for use in potable systems.

mp

Enclosure: Set of approved plans

cc: Jean Risser, Town Clerk, Town of Pinedale, Wyoming
District Sanitarian, District 1, Rock Springs, Wyoming
Farmers Home Administration, P.O. Box 820, Casper, Wyoming
82601

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
~~SANITARY ENGINEERING SERVICES~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: Wind River Indian Reservation, Water and Sewer Distribution Improvements, Wyoming
2. ARCHITECT OR ENGINEER: Submitted by Bill H. Reid, P.E., Indian Health Service, Public Health Service, P.O. Box 2143, Water Quality Division Billings, Montana 59103
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-114
4. REVIEWING ENGINEER: Robert H. Pinther, P.E.
5. DATE OF REVIEW: August 20, 1973
6. ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards
7. COMMENTS:
 1. Specifications covering quality of pipe, method of laying and backfilling, disinfecting, testing, etc. were not submitted.
 2. The minimum recommended burial depth for water mains is 6 feet.
 3. Provisions are not made for special protection* where water lines cross under, or less than 18 inches above sewer lines.
*See Section 8.4.3 "Crossings" of the enclosure entitled, "Part 8, Distribution Systems."

REP:mp

Enclosure

cc: Bill George, District Sanitarian, Worland, Wyoming

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
CHEYENNE, WYOMING 82002

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

Book

1. PROJECT: Wind River Indian Reservation, Water and Sewer Distribution Improvements, Fremont County, Wyoming
2. ARCHITECT OR ENGINEER: Submitted by Bill H. Reid, P.E., Indian Health Water Quality Division Service, Public Health Service, P.O. Box 2143, Billings, Montana 59103
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-114R
4. REVIEWING ENGINEER: Robert H. Pinther, P.E.
5. DATE OF REVIEW: October 3, 1973
6. ACTION: Reviewed for Compliance with acceptable Sanitary Engineering Standards
7. COMMENTS:
 1. In reference to Item TP-10-10.1 on page 10-4 of the Specifications, consideration should be given to specifying a maximum particle size of 1/4-inch for the material surrounding thermoplastic sewer pipe. See Section 2.2 of the ASTM Designation: D 2521-67 entitled "Recommended Practice for Underground Installation of Thermoplastic Sewer Pipe," a copy of which is enclosed.
 2. In reference to the "Air Release Valve" shown on Sheet 4, Schedule VI, "Boulder Flat Water Main," it is recommended that this valve be constructed and installed in compliance with Sections 8.5.3 and 8.5.4 of Section 8.5, "Valve, Air Relief, Meter and Blow-off Chambers." An excerpt from the "Great Lakes - Upper Mississippi River Board of State Sanitary Engineers" containing this section is enclosed.
 3. Where sewers pass over water mains, they should be provided with "adequate structural support for the sewers to prevent excessive deflection of joints and settling on and breaking of the water main" as set forth in Section 8.4.3, "Crossings", a copy of which was submitted with our review No. 73-114 of August 20, 1973. This is, also, an excerpt from the "Great Lakes - Upper Mississippi River Board of State Sanitary Engineers" referred to in comment No. 2 above.

RHP:mp
Enclosures (2)

cc: Bill George, District Sanitarian, Worland Wyoming

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
CHEYENNE, WYOMING 82002
REVIEW OF PLANS AND SPECIFICATIONS

Book

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001~~

1. PROJECT: Y-O Ranches, Ltd., Water System, P.O. Box 148, Wheatland Wyoming 82201
2. ARCHITECT OR ENGINEER: Harold J. Tuma, Y-O Ranches, Wheatland, Wyoming
~~Water Quality Division~~
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-115R
4. REVIEWING ENGINEER: Paul C. Schwieger, P.E.
5. DATE OF REVIEW: September 21, 1973
6. ACTION: Authorized for Construction
7. COMMENTS:

All requirements have been fulfilled - project is authorized for construction.

PCS:mp

9-24-73

Book

REVIEW OF PLANS AND SPECIFICATIONS

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES~~
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
~~SANITARY ENGINEERING SERVICES~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: Y O Ranches Ltd., P.O. Box 148, Wheatland, Wyoming 82201
2. ARCHITECT OR ENGINEER: Harold J. Tuma, Y O Ranches, P.O. Box 148, Wheatland, Wyoming
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-115
4. REVIEWING ENGINEER: Paul C. Schwieger, P.E.
5. DATE OF REVIEW: September 14, 1973
6. ACTION: Authorized for Construction
7. COMMENTS:

As per phone conversation September 14, 1973:

Inlet Orifice to be 4" above maximum water level in main tank.

PCS:mp
9/14/73

Book

REVIEW OF PLANS AND SPECIFICATIONS

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001~~

Converse County School District No. 1,

1. PROJECT: Recreation Park, ~~School District No. 1,~~ Underground Utilities
Converse County, Douglas, Wyoming

2. ARCHITECT OR ENGINEER: Corrbett/Dehnert/Associates, Lander, Wyoming

~~Water Quality Division~~
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-116

4. REVIEWING ENGINEER: Robert H. Pinther, P.E.

5. DATE OF REVIEW: October 11, 1973

6. ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards

7. COMMENTS:

1. Specify compliance with the latest edition of the "National Plumbing Code, ASA, A 40.8," or the "Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials".

2. Substitute the following for "15C-3 SEWER CROSSINGS" of the specifications:

15C-3 SEPARATION OF WATER MAINS AND SEWERS - PARALLEL INSTALLATIONS:

Water lines shall not be closer horizontally than ten (10) feet to any sewer mains or service line.

15C-4 SEWER CROSSINGS

(See the enclosure entitled, "8.4.3 Crossings" and used the contents of Sections "8.4.3.1 Normal Conditions" and "8.4.3.2 Unusual Conditions.")

3. In reference to the 8-inch sewer proposed on Hamilton Street extend (see Sheet 3 of plans) it is not good practice to discharge the contents of a larger sewer pipe into a smaller one even though the capacity of the smaller pipe may be greater on account of its steeper slope or for any other reason.

4. Specify disinfection of the water mains by one of the methods set forth in the enclosed excerpt from AWWA Standard #C601-68 entitled, "Disinfecting Water Mains".

REVIEW OF PLANS AND SPECIFICATIONS

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001~~

1. PROJECT: Recreation Park, School District No. 1, Underground Utilities
Converse County, Douglas, Wyoming
2. ARCHITECT OR ENGINEER:
Water Quality Division
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-116
4. REVIEWING ENGINEER:
5. DATE OF REVIEW: October 11, 1973
6. ACTION: Reviewed for compliance with acceptable Sanitary Engineering
Standards
7. COMMENTS: (continued)
 5. Provide a low pressure cut-off device on the suction manifold of each sprinkler booster pump. Each device should be adjustable and capable of shorting off the pump when the suction manifold pressure falls to any desirable pre-set pressure in the general range of 20 to 60 pounds per square inch.
 6. Specify a sewer main leakage test appropriate for local conditions and set a maximum allowable leakage (or infiltration) of not greater than 10,000 gallons per day per mile of sewer.

RHP:mp
Enclosures (2)

cc: Malcolm Crawford, District Sanitarian, Gillette

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Converse County School District #1 Recreation Park, Underground Utilities,
Douglas, Wyoming

ARCHITECT OR ENGINEER: Corbett/Dehnert/ Associates, 350 Garfield, Lander, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-116R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: December 12, 1973

ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards

COMMENTS: This review covers the plans and specifications, a letter received on November 6, 1973 from Mr. Ken Richardson of Corbett/Dehnert, Architects, our telephone conversation of December 4, with Mr. Richardson and our telephone conversation of December 5, with Mr. John Hanson of Dunham & Associates, Rapid City, South Dakota.

1. It is understood that the National Plumbing Code, ASA, A40.3 as adopted by the Town of Douglas is the standard for all plumbing on this project.
 2. It is understood that there is no need for a more stringent construction requirement at water and sewer crossings because the water mains are at least 18 inches above the sewer mains at all crossings included in this project.
 3. Since an 8 inch sewer from the School District will be discharging into an existing 6 inch sewer of the Town of Douglas, to prevent back up in the 8 inch and/or surcharging of the 6 inch line, arrangements should be made with the Town for increasing the capacity of the receiving sewer by enlargement of the latter.
 4. We are awaiting receipt of a copy of change orders covering provision of the following:
 - a. Disinfection of the water main in accordance with AWWA Standard #C601-68.
 - b. A low pressure cut-off device on the suction manifold of each sprinkler booster pump.
 - c. A sewer main leakage test appropriate for local conditions including a maximum allowable leakage (or infiltration) of not greater than 10,000 gallons per day per mile of sewer.
- NOTE: This test would involve a hydrostatic head between manholes with the upper manhole filled to ground level with water.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Converse County School District #1 Recreation Park, Underground Utilities
Douglas, Wyoming

ARCHITECT OR ENGINEER:

WATER QUALITY DIVISION REFERENCE NUMBER: 73-116R

REVIEWING ENGINEER: Robert H. Pinther

DATE OF REVIEW: December 12, 1973

ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards

COMMENTS: (continued)

- d. A satisfactory vacuum breaker such as a reduced pressure vacuum breaker at each sprinkler system equipment manhole to prevent backsiphonage of water from the sprinkler system into the Douglas municipal water system.

RHP:mp
12/17/73

cc: Town of Douglas, Douglas, WY

John Hanson, Dunham & Associates, 528 Kansas City Street, Rapid City, South Dakota

Vern Knisely, Manager, Knisely-Hoore Co., Box 660, Douglas, Wyoming

Malcolm Crawford, District Sanitarian, Gillette, Wyoming

108

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Converse County School District #1, Recreation Park, Underground Utilities, Douglas, Wyoming

ARCHITECT OR ENGINEER: Corbett/Dehnert/Associates, 350 Garfield, Lander, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-116RR

REVIEWING ENGINEER: Robert E. Pinther, P.E.

DATE OF REVIEW: May 14, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards. Additional information to be submitted as set forth below.

COMMENTS:

This review covers information submitted in a letter (With enclosure) of February 7, 1974, to this Division from Mr. Ken Richardson of Corbett/Dehnert. The comments set forth below are those on which the aforementioned letter states action is to be held in abeyance.

1. Since an 8 inch sewer from the School District will be discharging into an existing 6 inch sewer of the Town of Douglas, to prevent back up in the 8 inch and/or surcharging of the 6 inch line, arrangements should be made with the Town for increasing the capacity of the receiving sewer by enlargement of the latter.
2. We are awaiting receipt of a copy of change orders covering provisions of the following:
 - a. Disinfection of the water main in accordance with AWWA Standard #C601-68.
 - b. A sewer main leakage test appropriate for local conditions including a maximum allowable leakage (or infiltration) of not greater than 10,000 gallons per day per mile of sewer.

NOTE: This test would involve a hydrostatic head between manhole with the upper manhole filled to ground level with water.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Converse County School District #1 Recreation Park, Underground
Utilities, Douglas, Wyoming

ARCHITECT OR ENGINEER: Corbett/Dehnert/Associates, 350 Garfield, Lander, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-116RR

REVIEWING ENGINEER: RHP

DATE OF REVIEW: 5-14-74

ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards.
Additional information to be submitted as set forth below.

COMMENTS:

- c. A reduced pressure vacuum breaker at each sprinkler system equipment
manhole to prevent backsiphonage of water from the sprinkler system
into the Douglas municipal water system.

NOTE: This item was discussed with Mr. John Hanson of Dunham and
Associates, Consulting Engineers on May 3 and 14, 1974.

RHP:bb
5-15-74

cc: Town of Douglas, Douglas, Wyoming
John Hanson, Dunham & Associates, 526 Kansas City Street, Rapid City,
South Dakota.
Vern Knisely, Manager, Knisely-Moore Co., Box 660, Douglas, Wyoming
Malcolm Crawford, District Sanitarian, Gillette, Wyoming
Wyoming Recreation Commission, 604 E. 25th Street, Cheyenne, Wyoming
(Attention Leroy Greening, Chief, Land & Water Conservation Division)

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Converse County School District #1 Recreation Park, Underground Utilities, Douglas, Wyoming

ARCHITECT OR ENGINEER: Corbett/Dehnert/Associates, 350 Garfield, Lander, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-116RRR

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: July 26, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards. Additional information to be submitted as set forth below.

COMMENTS:

This review is based on a letter of July 15, 1974, from John Hanson of Dunham and Associates and is directed to the Architect. This letter, pertaining to comment #2c "a reduced pressure vacuum breaker...." of our review No. 73-116RR of May 14, 1974, was referred to this office for consideration. The comments set forth below represent the present status of our review covering this project.

1. Since an 8 inch sewer from the School District will be discharging into an existing 6 inch sewer of the Town of Douglas, to prevent back up in the 8 inch and/or surcharging of the 6 inch line, arrangements should be made with the Town for increasing the capacity of the receiving sewer by enlargement of the latter.

2. We are awaiting receipt of a copy of change orders covering provisions of the following:

- a. Disinfection of the water main in accordance with AWWA Standard #C601-68.
- b. A sewer main leakage test appropriate for local conditions including a maximum allowable leakage (or infiltration) of not greater than 10,000 gallons per day per mile of sewer.

NOTE: This test would involve a hydrostatic head between manhole with the upper manhole filled to ground level with water.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Converse County School District #1 Recreation Park, Douglas Wyoming

ARCHITECT OR ENGINEER: Corbett/Dehnert/Associates

WATER QUALITY DIVISION REFERENCE NUMBER: 73-116RRR

REVIEWING ENGINEER: BHP

DATE OF REVIEW: 7-26-74

ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards.
Additional information to be submitted as set forth below.

COMMENTS:

- c. The Clayton Model D (double check valve) backflow preventers which have been installed at each sprinkler system equipment manhole are not the equal of reduced pressure vacuum breakers which have been recommended. At such times as the Clayton valves become defective or major repairs are needed, they should be replaced by vacuum breakers of the reduced pressure type. Since the latter at times discharge and/or vent to the atmosphere, each equipped manhole should be provided with a satisfactory drain when the reduced pressure vacuum breaker is installed.

RWP:bb
8-2-74

cc: Town of Douglas, Douglas, Wyoming
John Hanson, Dunham & Associates, 528 Kansas City Street, Rapid City,
South Dakota
Vern Knisely, Manager, Knisely-Moore Co., Box 660, Douglas, Wyoming
Malcolm Crawford, District Sanitarian, Gillette, Wyoming
Wyoming Recreation Commission, 604 E. 25th Street, Cheyenne, Wyoming
(ATTENTION: Leroy Greening, Chief, Land & Water Conservation Division)

Book

REVIEW OF PLANS AND SPECIFICATIONS

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES~~
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
~~SANITARY ENGINEERING SERVICES~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: City of Casper, East Gate Addition, Sanitary Sewer Extensions
Casper, Wyoming
2. ARCHITECT OR ENGINEER: Roel K. Stratton, Casper Board of Public Utilities
136 West 8th Street, Casper, Wyoming
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-117
4. REVIEWING ENGINEER: William L. Garland, P.E.
5. DATE OF REVIEW: August 30, 1973
6. ACTION: Authorized for Construction
7. COMMENTS: None

WLG:mp

Book

REVIEW OF PLANS AND SPECIFICATIONS

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES~~
~~DIVISION OF HEALTH AND MEDICAL SERVICES~~
~~SANITARY ENGINEERING SERVICES~~
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: City of Casper, Valley Hills Addition No. 2, Plateau Place
Sanitary Sewer, Casper, Wyoming
2. ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, INC., 632 South
David Street, Casper, Wyoming
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-118
4. REVIEWING ENGINEER: Paul C. Schwieger, P.E.
5. DATE OF REVIEW: September 12, 1973
6. ACTION: Authorized for Construction
7. COMMENTS: None

PCS:mp
9/13/73

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Skyline Ranches Subdivision, Water Distribution System,
Paradise Valley, Wyoming

ARCHITECT OR ENGINEER: Sigma Engineering, Box 4058, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-119

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: October 29, 1973

ACTION: Reviewed for Compliance with State Standards; Construction
Authorized.

COMMENTS: None

RHP:mp
10-29-73

cc: Casper-Natrona County Health Department, Casper, Wyoming

1 set of plans + specs returned

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001

1. PROJECT: Sewage Disposal Facilities, Park County Wyoming, Cody Wyoming
2. ARCHITECT OR ENGINEER: Engineering Associates, Cody, Wyoming
3. SANITARY ENGINEERING SERVICES REF. NO.: 73-120
4. REVIEWING ENGINEER: Robert H. Pinther, P. E.
5. DATE OF REVIEW: October 4, 1973
6. ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards
7. COMMENTS:
 1. For ease of access for sewer line maintenance purposes, the dump station receiving pit should have a minimum diameter of 4 feet and iron steps set into the wall about 15 inches apart vertically.
 2. Facilities should be provided for temporary storage of screenings in corrosion resistant portable containers which have tightly fitting covers and are stabilized in the up-right position.
 3. Provision should be made for burial of the screenings under at least 2 feet of earth.
 4. The design of the proposed 8-inch ductile sewage delivery line from the dump station to each pond is not in accordance with good practice and, if installed as proposed, will require adequate provisions for high pressure flushing and "roding" to prevent clogging. Improper design includes (1) changes of grade and alignment without providing manholes and (2) location of all of the sewage delivery line which in the west side of the dike at an elevation which is below the water surfaces of the ponds.
 5. Provide a sign at the yard hydrant adjacent to the dump station. This sign should state the following: "NOTICE This Water For Flushing and Cleaning Purposes Only".
 6. On the basis of the expected loading of 950 gallons per day of waste with a BOD of 20,000 ppm, some odor problem could occur downwind from the ponds.

MHP:mp

cc: Bill George, District Sanitarian, Worland

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Park County Sewage Disposal Facilities, Park County, Wyoming

ARCHITECT OR ENGINEER: Engineering Associates, P.C. Box 1134, Cody,
Wyoming 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 73 1200

REVIEWING ENGINEER: Glenn L. Fisher, P.E.

DATE OF REVIEW: December 6, 1973

ACTION: Recommendation Authorized

COMMENTS:

2 copies of plans & spec returned to engineer

GLF:mp
12-7-73

cc. Bill George, District Sanitarian, Worland

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Park County Sewage Disposal Facilities, Park County, Wyoming

ARCHITECT OR ENGINEER: Engineering Associates, P.O. Box 1539, Cody, WY
82414

WATER QUALITY DIVISION REFERENCE NUMBER: 73-120RR

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: January 14, 1974

ACTION: Construction Authorized

COMMENTS:

This review covers Addenda Nos. 1 and 2, received December 26, 1973

RHP:mp
1-15-74

2 copies of Addenda Nos. 1 and 2 being returned

cc: Bill George, District Sanitarian, Worland

REVIEW OF PLANS AND SPECIFICATIONS

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001~~

1. PROJECT: Town of Evansville, 12" & 8" Water Supply Main, Evansville, Wyoming
2. ARCHITECT OR ENGINEER: Sigma Engineering, Casper, Wyoming
Water Quality Division
3. ~~SANITARY ENGINEERING SERVICES~~ REF. NO.: 73-121
4. REVIEWING ENGINEER: Robert H. Pinther, P.E.
5. DATE OF REVIEW: October 12, 1973
6. ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards
7. COMMENTS:

1. The new 8-inch valve and the east end of the existing 8-inch water main should be properly disinfected prior to placing the existing 8-inch water main back into service.

Note: This may be accomplished by following one of the procedures set forth in Section II - Procedures after Cutting into or Repairing Existing Mains - of the enclosed excerpt from AWWA Standard C601-68 entitled, "Disinfecting Water Mains".

RHP:mp
Enclosure

One copy of the plans and specifications are being returned to the Engineer

cc: Nix Anderson, Casper-Natrona County Health Department, Casper

B 002

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Evansville, 12" & 8" Water Supply Main, Evansville,
Wyoming

ARCHITECT OR ENGINEER: Sigma Engineering, Box 2354, Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 73-121R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: March 22, 1974

ACTION: Construction Authorized

COMMENTS:

This review covers Addendum No. 1 dated March 16, 1974
pertaining to disinfection of a new 8-inch valve on the water
distribution system.

RHP:mp
3/26/74

Enclosure: one copy of addendum being returned to engineer

cc: Nix Anderson, Casper-Natrona County Health Department, Casper

200

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Y-O Ranches Inc., Sewage Disposal Facilities Operation &
Maintenance Manual, Wheatland, Wyoming

ARCHITECT OR ENGINEER: M. C. Schaff & Associates, Inc., 1516 21st Avenue,
Scottsbluff, Nebraska 69361

WATER QUALITY DIVISION REFERENCE NUMBER: 73-122R

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: February 7, 1974

ACTION: Authorized for Implementation

COMMENTS:

We concur with the contents of this manual and consider the operator training indicated in item 6 of the last page to be of great benefit in the operation of the sewage disposal facility.

PCS:mp
2-8-74

3 manuals returned

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Y-O Ranches, Ltd., Wheatland, Wyoming

ARCHITECT OR ENGINEER: M.C. Schaff & Associates, Inc., 1516 21st Avenue
Scottsbluff, Nebraska 69361

WATER QUALITY DIVISION REFERENCE NUMBER: 73-122

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: October 25, 1973

ACTION: Authorized for Construction

COMMENTS:

In order to prevent extreme odor problem, the anaerobic lagoon should have a form of temperature control to maintain a minimum temperature of 70° F. The use of styrofoam or some other insulative material floated on top of the pond will be satisfactory.

PCS:mp

Photographs attached to plan

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Pepper Tank and Contracting Company, Proposed Municipal
Sanitary Sewer and Water Extension, Town of Mills, Wyoming

ARCHITECT OR ENGINEER: Vincent J. Gronski, G & S Engineering Co., Inc.
2524 Navarre Road, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 73-123

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: November 13, 1973

ACTION: Reviewed for Compliance with acceptable Sanitary Engineering
Standards

COMMENTS:

1. Specify that the plastic water pipe will be of the non-toxic type bearing the seal of approval of the National Sanitation Foundation.
2. Provide specifications covering, but not necessarily limited to the trenching, bedding, sanitary protection during laying, method of backfilling, disinfecting, and testing of the 2-inch PVC water pipe.

RHP:mp
11-13-73

cc: Nix Anderson, Casper-Natrona County Health Dept., Casper

BOOK

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Casper, Sanitary Sewer to River Wasteway - Longview
Additions, Casper Board of Public Utilities, Casper

ARCHITECT OR ENGINEER: J. W. Neziary, Submitted by Casper Board of
Public Utilities, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 70-125

REVIEWING ENGINEER: Robert L. Anderson, P.E.

DATE OF REVIEW: November 13, 1970

ACTION: Construction Authorized

COMMENTS:

RLA
11/31/70

cc. Rick Anderson, Casper-Suttons County Health Dept., Casper

J. L. E.
Book

Telephone 307 777-7391

November 1, 1973

Clifford A. Poindexter
Clifford A. Poindexter & Associates
P.O. Box 1171
Jackson, Wyoming 83001

Dear Mr. Poindexter:

Subject: Latellier Development Motel
& 32 Residential Sites, Water
and Sewage Systems, Teton
County, Water Quality Division
Ref. No. 73-126

We have taken the opportunity to review the preliminary information your firm has submitted on subject facility. We further appreciate the telephone discussion we held on this project on October 31, 1973.

At any rate, Article 3 of the Wyoming Environmental Quality Act does require our review and construction authorization prior to the time of construction, toward the State premise of protecting the quality of the waters (surface and ground) of the State. Also, the Federal Environmental Protection Agency requires that an NPDES permit-to-discharge be secured on new sewage facilities 180 days prior to commencement of operation, if, in fact, the proposed systems will discharge to navigable (surface) waters of the United States. Enclosed is a form for this use.

With the above in mind, we then pose that it is within the professional domain of the designer/engineer to orient his designs to the physical-sociological and aesthetic environs of the proposed facility. Carrying this point further, we stress the sensitive condition of Teton County waters, and their paramount posture as recreational and aesthetic streams. This premise would seem to dictate to a designer the ethical mandate to minimize to all the use of such streams as waste receiving bodies. As this would apply to conventional designs in the area, we would see and encourage in addition to a soundly designed and well maintained secondary treatment plant, an added post-polishing pond, leaching, filtration, disinfection, sprayfield, land disposal, or a combination of these applied to the secondary effluent to be strongly encouraged.

Clifford A. Poindexter
Jackson, Wyoming

2

November 1, 1973

Having realized this, the effluent will either not discharge, or will have realized near total biological treatment prior to return discharge to a receiving stream.

This soundness of secondary treatment does appear to exist in the proposed use of the Bio-Pure wastewater plants, wherein ultimately two each 10,000 gallons per day plants have been posed, with a staged approach to be applied. We would stress, however, that we would require that such secondary sewage treatment, with polishing, be required submitted for a specific number of units (or population), with later additional loading requiring separate and distinct approval of plans prior to the time the additions were actually made. In other words, a plant will be required submitted and approved for a specified maximum number of units. Of course, similar details are required for water supply system(s). Also, State law requires attention be paid to proposed site(s) for solid waste disposal, e.g. no person shall establish a new solid waste disposal site without plan approval.

It occurs to comment on the quoted possibility of using the central impoundment as a post-polishing pond. We point out the fact that this impoundment will probably be algae-laden, periodically risk septicity, and pose the potential for periodic visible solids loads. As such, this premise would, with its proximity to housing, not be encouraged. Finally, the National EPA goal in 1985 to realize "no pollutant discharge" is probably a wise premise to maintain.

We would, therefore, issue a statement of reasonable assurance that this design could proceed, based on information from the consultant, that he is fully aware of all concerns in this matter. We trust that this will be of assistance.

Sincerely,

Joseph R. Tynsky, P.E.
Sanitary Engineer
Water Quality Division
DEPARTMENT OF ENVIRONMENTAL QUALITY

JRT:mp

Enclosure: Short form D

cc: Art Brown, Board of County Commissioners, Teton County, P.O. Box 1727, Jackson
John Wagner, Permits
District Sanitarian, District 1, Rock Springs

REVIEW OF PLANS AND SPECIFICATIONS

~~WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
SANITARY ENGINEERING SERVICES
STATE OFFICE BUILDING
CHEYENNE, WYOMING 82001~~

1. PROJECT: Wyoming Recreation Commission, Curt Gowdy State Park,
Hynds Lodge Water System, Laramie County, Wyoming
2. ~~ARCHITECT OR ENGINEER:~~ ^{DESIGNER} Robert J. Drobish
3. ~~SANITARY ENGINEERING SERVICES~~ ^{WATER QUALITY DIVISION} REF. NO.: 73-127
4. REVIEWING ENGINEER: Paul C. Schwieger, P.E.
5. DATE OF REVIEW: October 24, 1973
6. ACTION: Authorized for Construction Contingent upon Meeting
These Comments.
7. COMMENTS:
 - A. Install 1" weep hole through sidewall of vault.
 - B. Maintain 18" height on well case (watertight seal,
between case and floor)
 - C. Install Styrofoam or equal frost shield in lid.
 - D. Check on valving at trailer hookups - no stop and
waste are allowed - should be brought up to standard
at this time.

PCS:mp

cc: Don Pack, City-County Health Unit, Cheyenne

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Casper, Sanitary Sewer Line Extension, Westview
Addition on CY Avenue, Casper

ARCHITECT OR ENGINEER: Roel K. Stratton, Casper Board of Public
Utilities, 136 West 8th Street, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-123

REVIEWING ENGINEER: William L. Garland, P.E.

DATE OF REVIEW: November 2, 1973

ACTION: Authorized for Construction

COMMENTS: None

WLG:mp
11/6/73

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Lincoln County Sanitary District, Rock Springs, Wyoming
Private Sewerage System

ARCHITECT OR ENGINEER: J. Lowell Sorenson, P.E., 1144
Broadway, Rock Springs, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 75-101

REVIEWING ENGINEER: Douglas A. Smith, P.E.

DATE OF REVIEW: October 30, 1973

ACTION: Reviewed for compliance with State Design Standards.
Construction Authorized.

COMMENTS:

- 1) Owner is not required to wait for State supervision to construct. However, State Department of Environmental Quality indicates that Lincoln County can elect to make any inspections during construction to see if quoted construction is being followed.
- 2) Owner should closely adhere to Minimum Standards for Private Sewage Disposal in constructing his facility. Page 17 of standards is particularly critical in obtaining a good leach system.

JRS:mp

cc: District Sanitarian, District 1, Rock Springs
J. Lowell Sorenson, Lincoln-Lincoln County Sanitary District, Courthouse,
Rock Springs, Wyoming with copy of Mr. Smith's letter of
October 24, 1973

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Gillette, Water and Sewer Lines Extension, McCann Heights Addition,
Gillette, Wyoming

ARCHITECT OR ENGINEER: Dalinos-Francis & Associates, 626 Jackson Blvd, Rapid City, SD

WATER QUALITY DIVISION REFERENCE NUMBER: 73-151

REVIEWING ENGINEER: Frank R. Harnen, P.E.

DATE OF REVIEW: December 20, 1973

ACTION: Construction Authorized

COMMENTS: None

FRH:mp
12/28/73

cc: Malcolm Crawford, District Sanitarian, Gillette

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Deaver, Addition to Sanitary Sewer System Deaver
Wyoming

ARCHITECT OR ENGINEER: Wesley W. Reed, Engineering Associates, P.O. Box
1539, Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 73-132

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: December 6, 1973

ACTION: Construction Authorized

COMMENTS:

RHP:mp
12-10-73

cc: Bill George, District Sanitarian, Worland

2 sets of plans sent back to engineer

Bosh

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wind River Indian Reservation, Athlete Community Center,
Water and Sewer Main Extensions, Laramie, Wyoming

ARCHITECT OR ENGINEER: R.L. Correll & Associates, Inc. 1010, Liverton,
Wyoming 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 73-112

REVIEWING ENGINEER: Robert A. Kincher, E.S.

DATE OF REVIEW: December 2, 1973

ACTION: Reviewed for compliance with acceptable Sanitary Engineering
Standards.

COMMENTS:

1. Specifications covering classification of water mains, testing of water and sewer mains for leakage, methods and care in laying water and sewer mains, non-toxicity of plastic water mains, etc., were not submitted.

2. No information was submitted covering the proximity of the proposed sewer main and an existing water main where these lines cross.

3. Section "3.4.3 Crossings" of the enclosure covers proper protection to be provided at water and sewer crossings.

4. It was noted that a four unit "Trailer Park" is layed out on the south side of the "Community Shopping Center". A copy of "General and Special Standards Governing Mobile Home Parks, Travel Trailers, Truck Campers and Tenting Units" is enclosed. If applicable, compliance shall be made with the aforementioned standards by the owner and plans shall be approved by the Wyoming Dept. of Social Services prior to the start of construction.

5. The size (1500 sq. ft) of the individual trailer units on the plan does not comply with required unit size (2500 sq. ft) as set forth in the aforementioned standards.

RAF:mp
Inclosures

cc Bill George, District Sanitarian, Worland

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wind River Indian Reservation, Athlete Community Center, Water and Sewer Main Extensions, Athlete, Wyoming

ARCHITECT OR ENGINEER: Nelson, Maley, Patterson & Quirk, Inc., Box 1320, Riverton, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-1332

REVIEWING ENGINEER: Robert R. Pintler, P.E.

DATE OF REVIEW: January 2, 1974

ACTION: Construction Authorized

COMMENTS:

1. To avoid freezing of the water main where heavy soil and/or high ground water conditions are encountered, a minimum depth of bury of 6 to 7 1/2 feet should be provided.
2. To avoid freezing of water service lines, a minimum depth of bury of 6 to 7 1/2 feet should be maintained depending on the soil and ground water conditions encountered.
3. Provide a minimum horizontal separation of 10 feet between all water and sewer service lines.

RHP:mp
1-3-74

cc: Bill George, District Sanitarian, Worland

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Casper, North Casper Addition, Block 2 and Block 6,
Sewer Plan and Profile, Casper, Wyoming

ARCHITECT OR ENGINEER: Western Engineers-Architects, Casper; submitted by
Mr. Garry Burnette, Style Homes Inc., Riverton, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 73-134

REVIEWING ENGINEER: Robert H. Linther, P.E.

DATE OF REVIEW: December 18, 1973

ACTION: Construction authorized pending verification of comment #1
set forth below.

COMMENTS:

These plans consist of 460 feet of 8 inch VC pipe in block 2 and 250 feet of VC pipe in block 6. The specifications to be followed are "Regulations for Sanitary Sewer Construction" of the Board of Public Utilities, City of Casper, dated June 9, 1969, with the exception set forth below.

1. Leakage tests should be specified and the leakage outward or infiltration in the case of wet trenches should not exceed 1250 gallons per day per inch of diameter per mile of sewer.

RHP:mp

cc: Board of Public Utilities, City of Casper, Casper, Wyoming
Nix Anderson, Casper-Natrona Co. Health Dept., Casper, Wyoming
Western Engineers-Architects, Casper, Wyoming

2-26-75 A. 12-19-73 letter re this project is attached.



P. O. BOX 353

800 SOUTH BROADWAY

307-856-9476

RIVERTON, WYOMING 82501

December 19, 1973

*2-26-75 R.H. Pinther
Pinther's out-bucket
today. P.O.*

Mr. Elvin Morton
Huber Plumbing
920 E. First
Casper, Wyoming 82601

Dear Mr. Morton:

The sewer mains in Blocks 2 and 6, N. Casper Addition are to be installed according to the attached plans and the specifications set forth in "Regulations for Sanitary Sewer Construction" of the Board of Public Utilities, City of Casper dated June 9, 1969 (copy attached) except for the following change:

Leakage outward in the case of dry trenches or infiltration in the case of wet trenches should not exceed 1250 gallons per day per inch diameter per mile of sewer in accordance with Wyoming Department of Environmental Quality, Water Quality Division stipulation. The leakage test shall be conducted as follows:

Dry Trench: Plug pipe at lower manhole and fill upper manhole to the top with water. Measure drop in water height over one hour and convert to gallons of leakage.

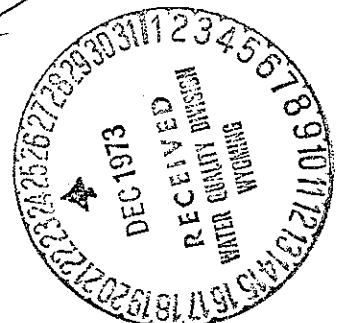
Wet Trench: Plug pipe at lower manhole and measure gallons of infiltration over one hour.

Respectfully,

Garry W. Burnette

Garry W. Burnette
Vice President, Engineering

cc: Board of Public Utilities, City of Casper, Wyoming
Casper-Natrona County Health Department
✓ Wyoming Department of Environmental Quality, Water
Quality Division -- ATTN: R.H. Pinther File No. 73-134



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Red Rock Park Subdivision, 24 tracts, Water System, Thermopolis
Wyoming

ARCHITECT OR ENGINEER: None; Submitted by Mr. Alden S. Ingraham, Hot Springs
Development Co., Inc., Thermopolis, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-135

REVIEWING ENGINEER: Robert H. Pinther, P.E., Robert L. Coffman, M.P.H.

DATE OF REVIEW: January 22, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering
Standards.

COMMENTS:

R.H.P.:

1. Submit plans and specifications covering the proposed water main extensions and any other water system appurtenances. This submittal shall be prepared by an engineer who is registered to practice in Wyoming.
2. Maintain a minimum separation of 25 feet between all buried water lines and drainage fields or seepage pits serving sewage disposal systems.
3. Maintain a physical separation between the public water supply system and the proposed irrigation water system.
4. Construct all individual sewage disposal systems in compliance with the bulletin of the Department of Health and Social Services entitled, "Minimum Standards for Private Sewage Disposal Systems", and obtain individual approval from the District Sanitarian.
5. Provide fly-tight and rust resistant refuse containers stabilized in the upright position.

R.L.C.:

1. Elucidate storm drains or elevations, etc., to protect individual disposal systems.

mp
1/25/74

cc: Bill George, District Sanitarian, Worland

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming Recreation Commission, Glendo State Park Sewer
Lagoon Modification, Platte County, Wyoming

ARCHITECT OR ENGINEER: None indicated; Submitted by Mr. Malcolm D. Martin,
Wyoming Recreation Commission

WATER QUALITY DIVISION REFERENCE NUMBER: 73-136

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: January 3, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering
Standards.

COMMENTS:

1. To avoid future overloading* of the proposed small vinyl lined receiving section of the lagoon, consideration might be given to providing, in lieu of the proposed "level control box", a raw sewage splitting box in the existing raw sewer outfall and a delivery line which will discharge raw sewage onto a concrete apron near the center of the remaining portion of the sewage lagoon.
*Overloading will occur due to the settling out of raw sewage solids in the receiving section of the lagoon.
2. To avoid sloughing off of liner cover materials from the lagoon slopes, it is recommended that consideration be given to providing earth cover over the vinyl liner only on the lagoon bottom.
3. Retention of the vinyl liner in place on the lagoon slopes might be obtained by means of a redwood anchor buried at least one foot deep around the periphery near the top of the lagoon inside slopes. Redwood 2" x 4" planking with the vinyl wrapped around it and compacted into place should accomplish this purpose.
4. No detail was given of the seals to be provided at the points where the vinyl lining meets the pond inlet and outlet. The anchoring of the vinyl in a concrete slab at each location is recommended.

RHP:mp
1-11-74

cc: Malcolm Crawford, District Sanitarian, Gillette

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming Recreation Commission, Glendo State Park Sewer
Lagoon Modification, Platte County, Wyoming

ARCHITECT OR ENGINEER: None indicated; submitted by Mr. Malcolm D. Martin
Wyoming Recreation Commission

WATER QUALITY DIVISION REFERENCE NUMBER: 73-136

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: March 25, 1974

ACTION: Construction Authorized

COMMENTS:

Final action based on telephone conversation with Robert
Drobish on January 3, 1974.

RHP:mp
3/28/74

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Glendo Marina, Garage Addition, Glendo, Wyoming

ARCHITECT OR ENGINEER: None indicated; plan submitted by Dennis Dawson,
Wyoming Recreation Commission, Cheyenne, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-137

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: January 3, 1974

ACTION: Authorized for Construction

COMMENTS:

FRH:mp
1-4-74

cc: Malcolm Crawford, District Sanitarian, Gillette

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Alpine Water & Sewer District - Water Collection, Storage
Tank and Distribution System (preliminary plans), Alpine, WY

ARCHITECT OR ENGINEER: Ivan L. Call, P.E.; Submitted by Verl Guffey,
Farmers Home Administration, Box 68, Afton, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 73-138

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: January 14, 1974

ACTION: Authorized for construction contingent on meeting the
recommendations in comments below.

COMMENTS:

1. Construction plans should be designed in accordance with 10 States Standards.
2. Inlet should be shown on longitudinal Section A-A of the storage tank.
3. Chlorinating equipment should be provided to insure that the water supply is disinfected.
4. Trap in over flow may be subject to damage by freezing; this could be replaced by a check valve.
5. System should be designed to provide 100 gallons per capita per day.

PCS:mp
1-25-74

cc: Ivan L. Call, P.E., 541 Madison, Afton, WY 83110

11-6-74 Xerox to Clyde Teague, Farmers Home Administration at Cheyenne meeting